AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

(Currently Amended) A radio base station comprising:
 a monitor (31),
 memory (33, 49) and

one or more resources (35 (i), 37(j),39 (k),41 (m), 43 (n), 45(o), 47 (p)), said memory (33, 49) being connected to the monitor (31) and arranged for storing tasks and data, each of said resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(o), 47 (p)) being connected to the monitor (31) and arranged for at least one of performing a function and executing a program, wherein the radio base station comprises

at least one <u>analog</u> analogue signal manifold (39 (k)) comprising input lines, output lines, and nodes for making connections between input and output lines, said input lines and output lines being connectable to predetermined resources and said nodes being arranged to perform at least a mathematic operation on an incoming signal on the input lines.

- 2. (Currently Amended) The radio Radio base station according to claim 1, wherein said resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(o), 47 (p)) that are arranged to execute a program are also arranged to generate trigger signals and send them to the monitor(31), said monitor(31) being arranged to receive said trigger signals, to read one or more tasks related to said trigger signals from said memory (33,49), to check whether resources required for performing said task are available and to send sending commands to selected resources specifying the task to be performed.
- 3. (Currently Amended) The radio Radio base station according to claim 1, wherein connections between said memory (33,49) and said monitor(31), and

connections between said resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(o), 47 (p)) and said monitor are implemented by means of a bus(51).

- 4. (Currently Amended) The radio Radio base station according to claim 3, wherein said resources (35 (i),37 (j), 39 (k), 41(m), 43 (n), 45(o), 47 (p)) are arranged for mutual communication via said bus (51).
- 5. (Currently Amended) <u>The radio Radio</u> base station according to <u>claim 3 elaims 3 or 4</u>, wherein using the bus (51) is based on a datagram principle.
- 6. (Currently Amended) The radio Radio base station according to claim 1 any of the preceding claims, wherein said memory (33,49) comprises a task memory (33) and a data memory (49).
- 7. (Currently Amended) The radio Radio base station according to claim 1 any of the preceding claims, wherein said monitor (31) comprises a state machine sequencer (79) for handling several state machines in parallel.
- 8. (Currently Amended) The radio Radio base station according to claim 7, wherein said memory comprises a ROM portion (61) and a RAM portion (59), said ROM portion (61) storing state machine definitions for said state machine sequencer (79), task definitions and default structures, said RAM portion (59) storing dynamic data.
- 9. (Currently Amended) The radio Radio base station according to claim 8, wherein said RAM portion (59) stores a resource allocation table (63), a data block list (65), and data blocks (67).
- 10. (Currently Amended) The radio Radio base station according to claim 1 any of the claims 1-8, wherein said monitor (31) comprises an executor (77) arranged for:

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sending commands to resources; sending task block requests to memory (33,49); receiving status information from resources; and receiving task blocks from memory (33,49).
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11. (Currently Amended) The radio Radio base station according to claim 9, wherein said monitor (31) comprises an executor (77) arranged for: sending commands to resources: sending task block requests to memory (33,49); receiving status information from resources; receiving task blocks from memory (33,49); and

12. (Currently Amended) The radio Radio base station according to claim 1 any of the preceding claims, wherein said one or more resources comprises at least one of:

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a transmitter (35 (i)),
a receiver(37 (j)),
a digital analog analogue converter (41 (m)),
an analog analogue digital converter (43 (n)),
a control unit (45(o)), and
a digital signal processor (47 (p)).
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maintaining said resource allocation table (63).

- 13. (Currently Amended) The radio Radio base station according to claim 12, wherein said one or more resources comprise at least one digital signal processor (47 (p)) storing an executable image for performing a program.
- 14. (Currently Amended) The radio Radio base station according to claim 12 any of the claims 12,13, wherein said one or more resources comprise a plurality of transmitters (35 (i)).

 a plurality of receivers (37 (j)),

a plurality of digital analog analogue converters (41 (m)), and

a plurality of analogue analog digital converters (43 (n)). said at least one analog analogue signal manifold (39 (k)) being arranged for making connections between said plurality of transmitters (35 (i)) and said plurality of digital analog analogue converters (41 (m)), and for making connections between said plurality of receivers (37 (j)) and said plurality of analogue analog digital converters (43 (n)).

- 15. (Currently Amended) The radio Radio base station according to claim 1 any of the preceding claims, wherein said mathematic operations comprise at least one of multiplying, adding, subtracting, and one-to-one connecting.
- 16. (Currently Amended) A method Method of operating a radio base station comprising a monitor (31), memory (33, 49), one or more resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(o), 47 (p)) and at least one analogue analog signal manifold (39 (k)), said memory (33,49) being connected to the monitor (31) and storing tasks and data, each of said one or more resources (35 (i), 37(j),39 (k),41 (m), 43 (n), 45 (o), 47 (p)) being connected to the monitor (31), said at least one analog analogue signal manifold (39 (k)) comprising input lines, output lines, and nodes for making connections between input and output lines, said input lines and output lines being connectable to predetermined resources, said method comprising:

at least one of performing a function and executing a program by said <u>one or more</u> resources (35 (i),37 (j), 39 (k), 41 (m), 45 (o), 47 (p)),

reading one or more tasks from said memory (33,49), checking whether resources required for performing said one or more tasks are available and sending commands to selected resources specifying the task to be performed;

connecting one or more input lines with one or more output lines of the <u>analog</u> analogue signal manifold (39 (k)) by means of said nodes; and

performing at least a mathematic operation on an incoming signal on the input lines in said nodes.

A computer Geomputer program product within a computer usable medium storing instructions and data to be loaded by a radio base station comprising a monitor(31), memory(33, 49), one or more resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(e), 47 (p)) and at least one analog analogue signal manifold (39 (k)). said memory (33, 49) being connected to the monitor (31) and storing tasks and data, each of said one or more resources (35 (i),37 (j), 39 (k), 41 (m), 43 (n), 45(e), 47 (p)) being connected to the monitor (31), said at least one analog analogue signal manifold(39 (k)) comprising input lines, output lines, and nodes for making connections between input and output lines, said input lines and output lines being connectable to predetermined resources, said computer program product, after being loaded, having instructions within the computer usable medium for allowing said monitor(31) to:

read one or more tasks from said memory (33,49),

check whether resources required for performing said one or more tasks are available, and

send commands to selected resources specifying the task to be performed, and send a command to said analogue signal manifold (39 (k)) to connect one or more input lines with one or more output lines and to perform at least a mathematic operation on an incoming signal on one or more input lines.

18. (Currently Amended) A data carrier comprising

a computer program product according to claim 17 within a computer usable medium, storing instructions and data to be loaded by a radio base station comprising a monitor, memory, one or more resources and at least one analog signal manifold, said memory being connected to the monitor and storing tasks and data, each of said one or more resources being connected to the monitor, said at least one analog signal manifold comprising input lines, output lines, and nodes for making connections between input and output lines, said input lines and output lines being connectable to predetermined resources, said computer program product, after being loaded, having computer executable instructions for allowing said monitor to:

read one or more tasks from said memory,

check whether resources required for performing said one or more tasks are available.

send commands to selected resources specifying the task to be performed, and send a command to said analogue signal manifold to connect one or more input lines with one or more output lines and to perform at least a mathematic operation on an incoming signal on one or more input lines.